Methods, IAAC, Krossing

Small Molecule X-	Model:		Bruker Smart-APEX II CCD Diffractometer
Ray Diffraction	Unit and Room: Responsible:		Inorg. Chemistry, basement, R137 Dr. Nils Trapp, 203 6156
Diffraction Methods	Further information:		nothing yet
Short Description:			Picture of the Equipment
CCD plate diffractometer equipped with molybdenum sealed-tube source and focussing collimator. High contrast and fast readout. Allows fast routine structure determination. Data reduction software is ideally suited for superstructure and twinning problems Available Experiments/Techniques: Single crystal X-Ray diffraction (routine) Single crystal X-Ray diffraction (high angle&charge density) Fast unit cell determination			
Special Equipment:			
Equipped with an Oxford Cryostream 600 crystal cooling device (100 - 350K). Custom apparatus for low-temperature (-120°C to RT) crystal mounting under inert conditions is available.			
Binocular polarizing microscope with digital camera is available for crystal mounting/evaluation.			
Measurements on the equipment are currently done by:		 Students Students after Introduction Students after extensive training Trained scientific service personal 	
Recent Publications, where this instrument was important (optional): Give citation		Angew. Chem. 2009,48, 1133-1137. Chem. Eur. J. 2009, 15, 1966-1976.	
Typical problems that may be solved with this instrument:		 Structure determination in the solid state Bonding information Twinned crystals Fast crystal screening 	
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